

CLAIMS

1. Improved assembly (110) consisting of internal casing (112) and support device (114) for nozzles in a gas turbine stage, said nozzles being grouped together in sectors and each of said sectors being connected externally to an external casing of said gas turbine by means of said support device (114), said support device (114) being kept in position by said internal casing (112), there also being formed first cooling holes (122) on said internal casing (112) and second cooling holes (124) on said support device (114), characterized in that said first cooling holes (122) of said internal casing (112) have an extension substantially parallel to the axis of said gas turbine.
2. Improved assembly (110) according to Claim 1, characterized in that said support device (114) has internally a cooling recess (126).
3. Improved assembly (110) according to Claim 1, characterized in that cooling inserts (118) are provided in said support devices (114).
4. Improved assembly (110) according to Claim 3, characterized in that said cooling inserts (118) are brazed along an external diameter of said support devices (114).
5. Improved assembly (110) according to Claim 1, characterized in that an anti-rotational pin (120)

is provided, being located substantially at the front of said support device (114).

- 5 6. Improved assembly (110) according to Claim 1, characterized in that a contact surface (128) supporting an axial thrust exists between said internal casing (112) and said support device (114).
- 10 7. Improved assembly (110) according to Claim 1, characterized in that said support devices (114) are grouped together in sectors.
- 15 8. Improved assembly (110) according to Claim 1, characterized in that said support devices (114) are kept in position by said internal casing (112) by means of grooves and pins and interlocking joints (116) with said nozzles.
- 20 9. Improved assembly (110) according to Claim 1, characterized in that said second cooling holes (124) are arranged at the rear of said support device (114).
- 25 10. Improved assembly (110) according to Claim 1, characterized in that said first holes (122) are arranged circumferentially and are forty-two in number.
- 30 11. Improved assembly (110) according to Claim 1, characterized in that said first holes (122) have an approximate diameter of 1.8 mm.

12. Improved assembly (110) according to Claim 1, characterized in that said stage is the first high-pressure stage of a gas turbine.